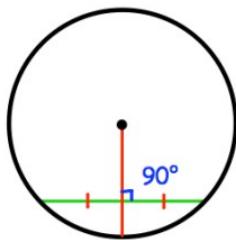


## (6) Tangents and radii

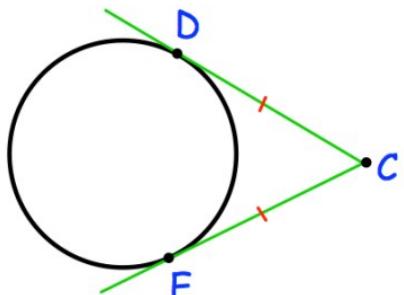
Do now:



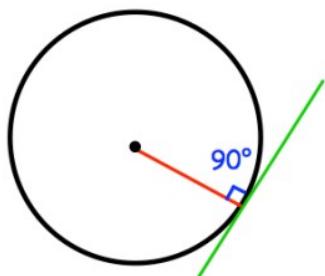
The radius through the midpoint of a chord will bisect the chord at  $90^\circ$

**Perpendicular from the Centre to a Chord**

(a)	(b)	(c)	(d)
(e)	(f)	(g)	(h)
(i)	(j)	(k)	(l)
		Find $y$ in terms of $x$	Find $y$ in terms of $x$



The tangents to a circle from the same point will be equal length



The angle between a radius and a tangent is  $90^\circ$

### Circle Theorems and Tangents

(a)	(b)	(c)	(d)
(e)	(f)	(g)	(h)
(i)	(j)	(k)	(l)
		Find $y$ in terms of $x$	Find $y$ in terms of $x$

Extension – calculate angle  $x$

